

EXAMINATION REQUIREMENTS
FOR
FIRE ALARM SIGNALING SYSTEM
CERTIFICATION



AS PRESCRIBED BY
THE STATE FIRE PREVENTION COMMISSION
ON JANUARY 15, 1993
IN ACCORDANCE WITH
THE STATE FIRE PREVENTION REGULATIONS
PART III, CHAPTERS 4 AND 6

**EXAMINATION REQUIREMENTS
FOR
FIRE ALARM SIGNALING SYSTEM
CERTIFICATION**

TABLE OF CONTENTS

<u>Subject</u>	<u>Page</u>
Table 1 – Classification of FASS Certificates	3
Table 2 – Exam Requirements for FASS Certification	4
Class I Fire Alarm Signaling System Certificate	5
Class IIa, IIb, III Fire Alarm Signaling System Certificate	6
Class IIc Fire Alarm Signaling System Certificate.....	7
Class IVa, IVb and IVc Fire Alarm Signaling System Certificate	8
Class Va, Vb Fire Alarm Signaling System Certificate	9
Class VI Fire Alarm Signaling System Certificate	10
Class VII Fire Alarm Signaling System Certificate	11
Class VIII Fire Alarm Signaling System Certificate	12
Selected General References.....	13

Dates of publication for previous editions:

August 15, 1989
June 19, 1990
March 12, 1999

To receive additional copies of the pamphlet, contact the

State Fire Marshal's Office
1537 Chestnut Grove Rd.
Dover, DE 19904

(302) 739-4394

**Classification of Fire Alarm Signaling
System Certificates
As per the State Fire Prevention Regulations
Part III, Chapters 4 and 6**

Class	Type of work that may be performed
I	All types of fire alarm signaling systems under Classes II, III, IV and V.
IIa	Proprietary Systems (Typical of NFPA 72)
IIb	Emergency Voice/Alarm Communications Systems (Typical of NFPA 72)
IIc	Emergency Voice/Alarm Communications Systems (Typical of NFPA 72)
III	Central Station Facilities and Systems (Typical of NFPA 110)
IVa	Local Alarm Systems (Typical of NFPA 72)
IVb	Auxiliary Alarm Systems (Typical of NFPA 72)
IVc	Remote Alarm Systems (Typical of NFPA 72)
Va	Household Fire Warning Systems (Typical of NFPA 72)
Vb	Single Station Fire Alarm Devices (Typical of NFPA 72)
VI	Inspection, Testing and Maintenance, ONLY, of all Systems
VII	Installation, ONLY, of all Systems
VIII	Inspection, Testing and Maintenance of In-House Licensed Systems, ONLY

Examination Requirements for Fire Alarm Signaling
Systems Certification
as per the State Fire Prevention Regulations
Part III, Chapters 4 and 6

Cert. Class	Examination Requirements
I	Successfully complete "SFPR Exam" Successfully complete "Class V Certification Exam" (See Note 2 on page 5) Successfully complete "Class II Certification Exam" (See Note 1 on page 5)
Ila, I Ib, & III	Successfully complete "SFPR Exam" Successfully complete "Class II Certification Exam" (See Note 1 on page 6)
I Ic	Successfully complete "SFPR Exam" Successfully complete "Class I Ic Certification Exam" (See Note 1 on page 7)
IVa, IVb, & IVC	Successfully complete "SFPR Exam" Successfully complete "Class IV Certification Exam" (See Note 1 on page 8)
Va & Vb	Successfully complete "SFPR Exam" Successfully complete "Class V Certification Exam" (See Note 2 on page 9)
VI	Successfully complete "SFPR Exam" Successfully complete "Class V Certification Exam" (See Note 2 on page 10) Successfully complete "Class II Certification Exam" (See Note 1 on page 10)
VII	Be a licensed Master Electrician
VIII	Successfully complete "SFPR Exam" Successfully complete "Class V Certification Exam" (See Notes 2 and 3 on page 12) Successfully complete "Class II Certification Exam" (See Note 1 on page 12)

CLASS I FIRE ALARM SIGNALING SYSTEM CERTIFICATE EXAMINATIONS

Section 1 – Scope of work which may be performed.

A Class I Fire Alarm Signaling System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire Alarm Signaling Systems under Class II, III, IV and V Certificates.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class II Certification Examination (FASS Class II Exam)

(Note 1)

The Fire Alarm Signaling System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 31001 – BASIC FIRE ALARM SYSTEMS
- 31002 – NFPA STANDARDS
- 31003 – BASIC WIRING
- 31004 – DEVICES AND COMPONENTS
- 31005 – PERIODIC TESTS
- 31006 – BASIC ELECTRICITY
- 31009 – INSTALLATION PRACTICES
- 33001 – FIRE PROTECTION PLANS & SYMBOLS
- 33002 – BASICS OF SYSTEM LAYOUT
- 33003 – ELECTRICAL INSTALLATION STANDARDS
- 33004 – BASIC FIRE ALARM SIGNALING SYSTEMS
- 33005 – SUPERVISION AND SUPERVISORY SERVICE
- 33006 – DETECTION METHODS
- 33007 – DETECTOR SPACING
- 33008 – POWER SUPPLIES
- 33009 – SYSTEM ACCEPTANCE & PERIODIC TESTS
- 33010 – CONSTRUCTION PLANS
- 33013 – BUILDING CODES
- 33016 – LOCAL PROTECTIVE SIGNALING SYSTEMS
- 33017 – AUXILIARY PROTECTIVE SIGNALING SYSTEMS
- 33018 – REMOTE STATION PROTECTIVE SIGNALING SYSTEMS
- 33019 – PROPRIETARY PROTECTIVE SIGNALING SYSTEMS
- 33020 – CENTRAL STATION SIGNALING SYSTEMS
- 33021 – MANUAL FIRE ALARM SYSTEMS & GUARDS TOUR SERVICE
- 33022 – HEAT SENSING FIRE DETECTORS
- 33023 – SMOKE SENSING FIRE DETECTORS
- 33024 – FLAME SENSING FIRE DETECTORS
- 33025 – SPRINKLER WATER FLOW & SUPERVISORY DEVICES
- 33026 – ALARM INDICATING APPLIANCES
- 33027 – BASICS OF SIGNAL TRANSMISSION
- 34001 – EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS
- 34002 – SIGNAL PROCESSING
- 34003 – SURVEYS FOR FIRE ALARM & DETECTION DEVICES
- 34004 – FIRE ALARM SYSTEM MAINTENANCE
- 34005 – FIRE ALARM SYSTEM WIRING
- 34006 – EMERGENCY EVACUATION SIGNALS
- 34007 – COMBINATION SYSTEMS

Fire Alarm Signaling System Class V Certification Examination (FASS Class V Exam)

(Note 2)

The Fire Alarm Signaling System Class V Certification Exam is primarily based on NFPA 72 with a few questions from NFPA 101, the Basic Building Code and the Standard Building Code.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90A -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 110 -	Standard for Emergency and Standby Power Systems
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class II Exam.

Note 2 – Successful completion of NICET work element 32004, Household fire Warning Systems shall be considered an equivalent to the FASS Class V Exam.

Class IIa, IIb or III
FIRE ALARM SIGNALING SYSTEM CERTIFICATE EXAMINATIONS

Section 1 – Scope of work which may be performed

A Class IIa, IIb or III Fire Alarm Signaling System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire Alarm Signaling Systems under the following respective classes:

Class IIa	Proprietary Systems (See NFPA 72)
Class IIb	Emergency Voice/Alarm Communications (See NFPA 72)
Class III	Central Station Facilities and Systems (See NFPA 71)

Section 2 – Examination Requirements
State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class II Certification Examination (FASS Class II Exam)
(Note 1)

The Fire Alarm Signaling System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements,

31001 – BASIC FIRE ALARM SYSTEMS
31002 – NFPA STANDARDS
31003 – BASIC WIRING
31004 – DEVICES AND COMPONENTS
31005 – PERIODIC TESTS
31006 – BASIC ELECTRICITY
31009 - INSTALLATION PRACTICES
33001 – FIRE PROTECTION PLANS & SYMBOLS
33002 – BASICS OF SYSTEM LAYOUT
33003 – ELECTRICAL INSTALLATION STANDARDS
33004 – BASIC FIRE ALARM SIGNALING SYSTEMS
33005 – SUPERVISION AND SUPERVISORY SERVICE
33006 – DETECTION METHODS
33007 - DETECTOR SPACING
33008 – POWER SUPPLIES
33009 – SYSTEM ACCEPTANCE & PERIODIC TESTS
33010 – CONSTRUCTION PLANS
33013 – BUILDING CODES
33016 – LOCAL PROTECTIVE SIGNALING SYSTEMS
33017 – AUXILIARY PROTECTIVE SIGNALING SYSTEMS
33018 – REMOTE STATION PROTECTIVE SIGNALING
33019 – PROPRIETARY PROTECTIVE SIGNALING SYSTEMS
33020 – CENTRAL STATION SIGNALING SYSTEMS
33021 – MANUAL FIRE ALARM SYSTEMS & GUARDS TOUR SERVICE
33022 - HEAT SENSING FIRE DETECTORS
33023 – SMOKE SENSING FIRE DETECTORS
33024 – FLAME SENSING FIRE DETECTORS
33025 – SPRINKLER WATER FLOW & SUPERVISORY DEVICES
33026 – ALARM INDICATING APPLIANCES
33027 – BASICS OF SIGNAL TRANSMISSION
34001 – EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS
34002 – SIGNAL PROCESSING
34003 – SURVEYS FRO FIRE ALARM & DETECTION DEVICES
34004 – FIRE ALARM SYSTEM MAINTENANCE
34005 – FIRE ALARM SYSTEM WIRING
34006 – EMERGENCY EVACUATION SIGNALS
34007 – COMBINATION SYSTEMS

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90A -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class II Exam

CLASS IIc FIRE ALARM SIGNALING SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class IIc Fire Alarm Signaling System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire Alarm Signaling Systems under Class IIc – Emergency and Standby Power Systems (See NFPA 110).

Section 2 – Examination Requirements State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class IIc Certification Examination (FASS Class IIc Exam)

The Fire Alarm Signaling System Class IIc Certification Exam will consist of a test developed and maintained by the National Institute for Certification in Engineering Technologies. The exam for FASS Class IIc is a specially prepared NICET exam consisting of questions from the following 6 NICET work elements. Successful completion of this exam requires passing all 6 work elements.

31001 – BASIC FIRE ALARM SYSTEMS
31002 – NFPA STANDARDS
31003 – BASIC WIRING
31006 – BASIC ELECTRICITY
33003 – ELECTRICAL INSTALLATION STANDARDS
33008 – POWER SUPPLIES

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90A -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 110 -	Standard for Emergency and Standby Power Systems
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class IIc Exam.

CLASS IVa, IVb OR IVc FIRE ALARM SIGNALING SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class IVa, IVb or IVc Fire Alarm Signaling system Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire Alarm Signaling Systems under the following respective Classes:

Class IVa	Local Alarm (See NFPA 72)
Class IVb	Auxiliary Alarm (See NFPA 72)
Class IVc	Remote Alarm (See NFPA 72)

Section 2 – Examination Requirements State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class IV Certification Examination (FASS Class IV Exam)

The Fire Alarm Signaling System Class IV Certification Exam is an exam consisting of questions from the following 35 NICET work elements. Successful completion of this exam requires passing all 35 work elements.

- 31001 – BASIC FIRE ALARM SYSTEMS
- 31002 – NFPA STANDARDS
- 31003 – BASIC WIRING
- 31004 – DEVICES AND COMPONENTS
- 31005 – PERIODIC TESTS
- 31006 – BASIC ELECTRICITY
- 31009 – INSTALLATION PRACTICES
- 33001 – FIRE PROTECTION PLANS & SYMBOLS
- 33002 – BASICS OF SYSTEM LAYOUT
- 33003 – ELECTRICAL INSTALLATION STANDARDS
- 33004 – BASIC FIRE ALARM SIGNALING SYSTEMS
- 33005 – SUPERVISION AND SUPERVISORY SERVICE
- 33006 – DETECTION METHODS
- 33007 – DETECTOR SPACING
- 33008 – POWER SUPPLIES
- 33009 – SYSTEM ACCEPTANCE & PERIODIC TESTS
- 33010 – CONSTRUCTION PLANS
- 33013 – BUILDING CODES
- 33016 – LOCAL PROTECTIVE SIGNALING SYSTEMS
- 33017 – AUXILIARY PROTECTIVE SIGNALING SYSTEMS
- 33018 – REMOTE STATION PROTECTIVE SIGNALING SYSTEMS
- 33021 – MANUAL FIRE ALARM SYSTEMS & GUARDS TOUR SERVICE
- 33022 – HEAT SENSING FIRE DETECTORS
- 33023 – SMOKE SENSING FIRE DETECTORS
- 33024 – FLAME SENSING FIRE DETECTORS
- 33025 – SPRINKLER WATER FLOW & SUPERVISORY DEVICES
- 33026 – ALARM INDICATING APPLIANCES
- 33027 – BASICS OF SIGNAL TRANSMISSION
- 34001 – EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS
- 34002 – SIGNAL PROCESSING
- 34003 – SURVEYS FOR FIRE ALARM & DETECTION DEVICES
- 34004 – FIRE ALARM SYSTEM MAINTENANCE
- 34005 – FIRE ALARM SYSTEM WIRING
- 34006 – EMERGENCY EVACUATION SIGNALS
- 34007 – COMBINATION SYSTEMS

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90 -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 110 -	Standard for Emergency and Standby Power Systems
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class IV Exam.

CLASS Va & Vb FIRE ALARM SIGNALING SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class V Fire Alarm Signaling System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire Alarm Signaling Systems under the following classes;

- Va – Household fire warning systems (typical of NFPA 72 systems)
- Vb – Single Station Fire Alarm Devices (typical of NFPA 72 systems)

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class V Certification Examination (FASS Class V Exam)

(See Note 2)

The fire Alarm Signaling System Class V Certification Exam is primarily based on NFPA 72 with a few questions from NFPA 101, the Basic Building Code and the Standard Building Code.

Section 3 – Reference Material

SFPR	State Fire Prevention Regulations
NFPA 72 -	National Fire Alarm Code
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures

Note 2 – Successful completion of NICET work element 32004, Household Fire Warning Systems shall be considered an equivalent to the FASS Class V Exam.

CLASS VI FIRE ALARM SIGNALING SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class VI Fire Alarm Signaling System Certificate will allow the certificate holder to perform inspection, testing and maintenance service of Fire Alarm Signaling Systems under Class II, III, IV and V Certificates.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Alarm Signaling System Class II Certification Examination (FASS Class II Exam)

(Note 1)

The Fire Alarm Signaling System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 31001 – BASIC FIRE ALARM SYSTEMS
- 31002 – NFPA STANDARDS
- 31003 – BASIC WIRING
- 31004 – DEVICES AND COMPONENTS
- 31005 – PERIODIC TESTS
- 31006 – BASIC ELECTRICITY
- 31009 – INSTALLATION PRACTICES
- 33001 – FIRE PROTECTION PLANS & SYMBOLS
- 33002 – BASICS OF SYSTEM LAYOUT
- 33003 – ELECTRICAL INSTALLATION STANDARDS
- 33004 – BASIC FIRE ALARM SIGNALING SYSTEMS
- 33005 – SUPERVISION AND SUPERVISORY SERVICE
- 33006 – DETECTION METHODS
- 33007 – DETECTOR SPACING
- 33008 – POWER SUPPLIES
- 33009 – SYSTEM ACCEPTANCE & PERIODIC TESTS
- 33010 – CONSTRUCTION PLANS
- 33013 – BUILDING CODES
- 33016 – LOCAL PROTECTIVE SIGNALING SYSTEMS
- 33017 – AUXILIARY PROTECTIVE SIGNALING SYSTEMS
- 33018 – REMOTE STATION PROTECTIVE SIGNALING SYSTEMS
- 33019 – PROPRIETARY PROTECTIVE SIGNALING SYSTEMS
- 33020 – CENTRAL STATION SIGNALING SYSTEMS
- 33021 – MANUAL FIRE ALARM SYSTEMS & GUARDS TOUR SERVICE
- 33022 – HEAT SENSING FIRE DETECTORS
- 33023 – SMOKE SENSING FIRE DETECTORS
- 33024 – FLAME SENSING FIRE DETECTORS
- 33025 – SPRINKLER WATER FLOW & SUPERVISORY DEVICES
- 33026 – ALARM INDICATING APPLIANCES
- 33027 – BASICS OF SIGNAL TRANSMISSION
- 34001 – EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS
- 34002 – SIGNAL PROCESSING
- 34003 – SURVEYS FOR FIRE ALARM & DETECTION DEVICES
- 34004 – FIRE ALARM SYSTEM MAINTENANCE
- 34005 – FIRE ALARM SYSTEM WIRING
- 34006 – EMERGENCY EVACUATION SIGNALS
- 34007 – COMBINATION SYSTEMS

Fire Alarm Signaling System Class V Certification Examination (FASS Class V Exam)

(Note 2)

The Fire Alarm Signaling System Class V Certification Exam is primarily based on NFPA 72 with a few questions from NFPA 101, the Basic Building Code and the Standard Building Code.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90A -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 110 -	Standard for Emergency and Standby Power Systems
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class II Exam.

Note 2 – Successful completion of NICET work element 32004, Household Fire Warning Systems shall be considered an equivalent to the FASS Class V Exam.

CLASS VII FIRE ALARM SIGNALING SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class VII Fire Alarm Signaling system Certificate is limited to installation, only, of all types of fire alarm signaling systems. A prerequisite to being certified in this Class is that the fire alarm signaling system to be installed, would have had technical documents submitted by a company licensed under the provisions of the State Fire Prevention Regulations and by a Certificate Holder qualified in Class I, II, III, IV or V under these Regulations, to the Office of the State Fire Marshal for review and approval.

Section 2 – Examination Requirements

Notwithstanding any other requirements found in the State Fire Prevention Regulations, a company may be licensed or an individual may be certified for the Class, Class VII, if the company or the individual is licensed by the State of Delaware as a Master Electrician. Any person or company who is not installing fire alarm signaling systems in accordance with this Class, must be certified and licensed to Class I, II, III, IV or V.

**CLASS VIII FIRE ALARM SIGNALING SYSTEM CERTIFICATE
(RESERVED FOR IN-HOUSE LICENSEE'S)**

Section I – Scope of work which may be performed

A Class VIII Fire Alarm Signaling System Certificate will allow the certificate holder to perform inspection, testing and maintenance service of wholly owned or proprietary fire alarm signaling systems.

**Section 2 – Examination Requirements
State Fire Prevention Regulations Examination (SFPR Exam)**

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

**Fire Alarm Signaling System Class II Certification Examination (FASS Class II Exam)
(Note 1)**

The Fire Alarm Signaling System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 31001 - BASIC FIRE ALARM SYSTEMS
- 31002 - NFPA STANDARDS
- 31003 - BASIC WIRING
- 31004 - DEVICES AND COMPONENTS
- 31005 - PERIODIC TESTS
- 31006 - BASIC ELECTRICITY
- 31009 - INSTALLATION PRACTICES
- 33001 - FIRE PROTECTION PLANS & SYMBOLS
- 33002 - BASICS OF SYSTEM LAYOUT
- 33003 - ELECTRICAL INSTALLATION STANDARDS
- 33004 - BASIC FIRE ALARM SIGNALING SYSTEMS
- 33005 - SUPERVISION AND SUPERVISORY SERVICE
- 33006 - DETECTION METHODS
- 33007 - DETECTION METHODS
- 33008 - POWER SUPPLIES
- 33009 - SYSTEM ACCEPTANCE & PERIODIC TESTS
- 33010 - CONSTRUCTION PLANS
- 33013 - BUILDING CODES
- 33016 - LOCAL PROTECTIVE SIGNALING SYSTEMS
- 33017 - AUXILIARY PROTECTIVE SIGNALING SYSTEMS
- 33018 - REMOTE STATION PROTECTIVE SIGNALING SYSTEMS
- 33019 - PROPRIETARY PROTECTIVE SIGNALING SYSTEMS
- 33020 - CENTRAL STATION SIGNALING SYSTEMS
- 33021 - MANUAL FIRE ALARM SYSTEMS & GUARDS TOUR SERVICE
- 33022 - HEAT SENSING FIRE DETECTORS
- 33023 - SMOKE SENSING FIRE DETECTORS
- 33024 - FLAME SENSING FIRE DETECTORS
- 33025 - SPRINKLER WATER FLOW & SUPERVISORY DEVICES
- 33026 - ALARM INDICATING APPLIANCES
- 33027 - BASICS OF SIGNAL TRANSMISSION
- 34001 - EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS
- 34002 - SIGNAL PROCESSING
- 34003 – SURVEYS FOR FIRE ALARM & DETECTION DEVICES
- 34004 – FIRE ALARM SYSTEM MAINTENANCE
- 34005 – FIRE ALARM SYSTEM WIRING
- 34006 – EMERGENCY EVACUATION SIGNALS
- 34007 – COMBINATION SYSTEMS

**Fire Alarm Signaling System Class V Certification Examination (FASS Class V Exam)
(Notes 2 & 3)**

The Fire Alarm signaling System Class V Certification Exam is primarily based on NFPA 72 with a few questions from NFPA 101, the Basic Building Code and the Standard Building Code.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	National Fire Alarm Code
NFPA 80 -	Standard for Fire Doors and Windows
NFPA 90A -	Standard for the Installation of Air Conditioning and Ventilation Systems
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 110 -	Standard for Emergency and Standby Power Systems
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)

See the NICET Fire Alarm Systems Program Detail Manual for additional suggested references

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Fire Alarm Systems, will be considered an equivalent to the FASS Class II Exam.

Note 2 – Successful completion of NICET work element 32004, Household Fire Warning Systems shall be considered an equivalent to the FASS Class V Exam.

Note 3 – Completion of the Class V Exam will not be required for In-House Licensee's that do not inspect, test and maintain Household Fire Warning Equipment.

SELECTED GENERAL REFERENCES
(Provided by NICET)

Basic Building Code, Building Officials and Code Administrators International Inc., 4051 West Flossmoor Rd., Country Hills, IL 60477-5795

Bryan, John L. Fire Suppression and Detection Systems, National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555

Clough, Richard H. Construction Contracting, John Wiley & Sons, Inc. New York, NY

Dunham, Clarence W. and Young, Robert D. Contracts, Specifications and Law for Engineers, McGraw-Hill, New York, NY

Electrical Construction Materials Directory, Underwriters Laboratories, Inc., 333 Pfingston Rd., Northbrook, IL 60062, 312-272-8800

Fire Alarm Signaling Systems Handbook, National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555

Fire Protection Equipment Directory, Underwriters Laboratories, Inc. Northbrook, IL

Fire Protection Handbook, National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555

Guide for Proper Use of System Smoke Detectors, National electrical Manufacturers Association. Washington, DC

Guide for Proper Use of System Smoke Detectors in Duct Applications, National Electrical Manufacturers Association. Washington, DC

Handbook of Fire Protection Engineering, National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555

NFPA Inspection Manual, National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555

Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks (ANSI/ASME A17.1), American Society of Mechanical Engineers, New York, NY

Standard Building Code, Southern Building Code Congress International, Inc. Birmingham, AL

Training Manual on Fire Alarm Systems, National Electrical Manufacturers Association. Washington, DC

Uniform Building Code, International Conference of Building Officials. Whittier, CA

NOTE 1: THIS LISTING IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE.

NOTE 2: NFPA Selected References of NICET for editions can be found on NICET Website @ <http://www.nicet.org/fireprotectionstandards.pdf>